

10.565418
IAP6 Rec'd PCT/PTO 23 JAN 2006

SEQUENCE LISTING

<110> Monaci, Paolo
Gallo, Pasquale
Nuzzo, Maurizio

<120> SYNTHETIC GENE ENCODING HUMAN EPIDERMAL
GROWTH FACTOR 2/NEU ANTIGEN AND USES THEREOF

<130> ITR0065YP

<150> PCT/EP2004/008234

<151> 2004-04-20

<150> 60/489,237

<151> 2003-07-21

<160> 14

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<212> DNA

<213> Artificial Sequence

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<223> HER2opt

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<213> Homo Sapiens, HER2

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Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu						
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Val Arg Ala Val Thr Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys						
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<212> DNA

<213> Artificial Sequence

<220>

<223> hHER2opt + Kozak

<400> 11

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<223> PCR Primer

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<223> PCR Primer

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<213> Artificial Sequence

<220>

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			165						170				175		
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Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu		
245	250	255
His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val		
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Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg		
275	280	285
Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu		
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Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln		
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Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys		
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Lys Ile Phe Gly Ser Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp		
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Pro Ala Ser Asn Thr Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe		
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Glu Thr Leu Glu Glu Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro		
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Asp Ser Leu Pro Asp Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg		
420	425	430
Gly Arg Ile Leu His Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu		
435	440	445
Gly Ile Ser Trp Leu Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly		
450	455	460
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr Val		
465	470	475
Pro Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr		
485	490	495

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Gln Leu Cys Ala Arg Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys			
515	520	525	
Val Asn Cys Ser Gln Phe Leu Arg Gly Gln Glu Cys Val Glu Glu Cys			
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Arg Val Leu Gln Gly Leu Pro Arg Glu Tyr Val Asn Ala Arg His Cys			
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Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr Cys			
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Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys Asp			
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Pro Pro Phe Cys Val Ala Arg Cys Pro Ser Gly Val Lys Pro Asp Leu			
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Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu Gly Ala Cys Gln			
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Ala Val Val Gly Ile Leu Leu Val Val Val Leu Gly Val Val Phe Gly			
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Ile Leu Ile			
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